

Patent Abstracts of Japan

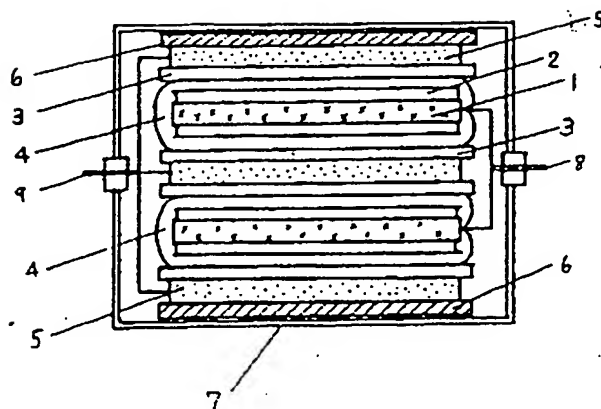
PUBLICATION NUMBER : 01100872
PUBLICATION DATE : 19-04-89
APPLICATION DATE : 14-10-87
APPLICATION NUMBER : 62258569

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INT.CL. : H01M 10/34 H01M 2/16

TITLE : SEALED TYPE NICKEL-ZINC CELL



ABSTRACT : PURPOSE: To improve the gas absorbing capacity and the cycle life property of negative electrodes by forming oxygen gas permeable layers on the outermost negative electrode plates (the side negative electrode plates) of an electrode group, and forming oxygen gas impermeable liquid-holding layers on the rear sides of the side negative electrode plates and on the negative electrodes other than the side electrode plates.

CONSTITUTION: Positive electrodes 1 consisting of Ni sintered plates, liquid-holding layers 2 consisting of nonwoven fabrics of cellulose type, polyamide type, or the like, oxygen gas impermeable liquid-holding layers 3 consisting of a cellulose type nonwoven fabric or the like, separators 4 consisting of polypropylene membrane, grafted polyethylene membrane, cellophane, or the like, enclosing the positive electrode 1 and the positive electrode side liquid-holding layer 3 in a plurally laminated firm, negative electrodes 5, oxygen gas permeable layers 6 consisting of polypropylene nonwoven fabric or the like, a battery jar 7, a positive electrode terminal 8, and a negative electrode terminal 9 are provided. Since oxygen impermeable layers 3 are furnished at the peripheries of the negative electrode plates 5 at the center position, other than the side negative electrode plates 5, the oxygen gas contacted to the peripheries is prevented from absorbing, and the form variation in every cycle is relaxed to improve the service life of the cell.

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